First & Final Bill

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No:

Division: **R.R Nagar**

Date:

Sub- Division: **R.R Nagar** , Electrical

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Scheduled Docket No.

Name of Work (as per sanctioned estimate): **Special Developmental works at ward no-16**

Name of Contractor and Full Adress: **M/S KUSUMA ELECTRICALS, Prop: JAYARAM, No-2, 1st main Saraswathipuram, Nandhini layout, Bangalore-96**

Work order No : EE/ELE/RRN/W.O/29/17-18 Dtd: 22-01-2018 **Budget Head:** P3173

Reference to Agreement : EE/ELE/RRN/AG/29/17-18 Dtd: 22-01-2018 **Job Code:016-17-000006**

Certified that the measurements were taken by me on 30/05. and recorded of page nos 221258 to 221264 of measurement Book No: 2213/18-19 and that the work is satisfactorily executed.

Contractor **Officer in charge of work**

Certified that the measurements were checked by me on 30/05 and found correct. The work is satisfactorily executed.

Cetified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon and normal agreement signed and executed by the contractor is recorded in the the office .

Sub-division Officer

II Memorandum of Payment

1) Total value of work done or supplies as per account within
2) Deduct amount to be held in re3serve being .....percent Rs.....
3) " Balance
4) Deduct payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....
      Amount adjusted towards cash advance recovery of
   b) Payments cost store or other material supplied.
      Now made recovery amount creditable to this/ other work
      Amount paid on this bill cheque/cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments
7) Net amount due to or from contractor

Unadjusted items

8) Advance to contractor for materials brought to site (as detailed) within
   Value of Government materials supplied

84,06,170 = ω

Adjustments Details

IT : 84074 = ω

KST : 168148 = ω

CE : 8407 = ω

FSF : —

LC : 84074 = ω

FINE : 540 = ω

OTHERS : -

TOTAL : 345243 = ω

Net : 80,60,927 = ω

Contractors Signature

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

1.

2.

Dated .....Signature of contractor

Paid by me by cheque No.....Dated .....

Cash Rs.....Dated.....

Stamp

(For use in the office)

Cheque Rs 8060927 Only

Adjustment Rs 345243 Only

Rs in Words Eighty lakh sixty thousand nine hundred twenty seven only

Initials of Officer making payment

Executive Engineer (Ele)

Name of the work :-Special Developmental works at ward no-16.

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
1	Supply of solar lux level street light controller -single phase 3KW	Each			70	7984.0	558880.00	70.00	558880.00
2	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. -63Amps	Each			70	234.0	16380.00	70.00	16380.00
3	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.--60-70Amps	Each			70	4774.0	334180.00	70.00	334180.00
4A	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. a)5-32Amps SP	Each			70	418.0	29260.00	70.00	29260.00
4B	b) 40-63 Amps SP	Each			140	677.0	94780.00	140.00	94780.00
5	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint -40x40x6mm	Per Mtr			68	263.0	17884.00	68.00	17884.00
6	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. --300mmx450mmx214mm)	Each			70	5826.0	407820.00	70.00	407820.00
7	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 25 sqmm	Per Mtr			693	165.6	114760.80	693.00	114760.80
8	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure -25 sqmm to 75 sqmm	Per Mtr			693	34.8	24116.40	693.00	24116.40
9	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 25mm dia	Each			140	86.0	12040.00	140.00	12040.00
10A	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. a) 16 sqmm	Each			525	11.31	5937.75	525.00	5937.75
10B	b) 25 sqmm Long Barrel	Each			120	20.59	2470.80	120.00	2470.80
11A	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.	Per Mtr			125	29.2	3650.00	125.00	3650.00
					260	171.0	44460.00	260.00	44460.00

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
12	LED Street light.Supply of 65 WATTS LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.a) LED Streetlight 65watts	Each			204	13500.0	2754000.00	204.00	2754000.00
13	LED Street light. Supply of 90 WATTS LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. a) 90 Watts	Each			120	28000.0	3360000.00	120.00	3360000.00

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
14	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts ,nuts and wiring using suitable capacity wires. -Using 32mm dia G.I.pipe	Each			324	1140.0	369360.00	324.00	369360.00
15	Releasing and Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.(1.9 times the Basic Rate for Fixing)	Each			200	334.4	66880.00	200.00	66880.00
16	Supplying and stringing of ACSR Conductor (6/2.59mm Al +1/2.59mm Steel).	Mtr			390	30.0	11700.00	390.00	11700.00
17	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm -510mm	Each			14	306.0	4284.00	14.00	4284.00
18	Supplying and Fixing ..... including all Hardware's etc. complete as per the standard technical specification of BESCOM a) RCC Clamp	Each			14	84.0	1176.00	14.00	1176.00
19A	Supplying and Fixing .....including all Hardware's etc. complete as per the standard technical specification of BESCOM a) 1.1 KV Pin Insulator	Each			14	44.0	616.00	14.00	616.00
19B	No. 8 Strain Insulator	Each			3	14.0	42.00	3.00	42.00
20A	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound; insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2 X 16 + 1 X 25 SQ.MM	Mtr			590	92.0	54280.00	590.00	54280.00
20B	3 X 16 + 1 X 25 + 1 X 16 SQ.MM	Mtr			320	117.0	37440.00	320.00	37440.00
21	Supplying and fixing of Dead End Clamp/ Anchor clamps assembly 25 to 95 sqmm bear messanger (Excluding Pole clamp and Eye bolt) CDS-37 Bescom SR-16-17	Each			16	315.0	5040.00	16.00	5040.00
22	Supplying and fixing of suspension clamp assemblly 25 to 95 sqmm bear messanger (Excluding Pole clamp and Eye bolt) CDS-37 Bescom SR-16-17)	Each			28	305.0	8540.00	28.00	8540.00
23	Supplying and fixing of Pole clamp for LT/HT CABLE . CDS-37 Bescom SR-16-17	Each			28	85.0	2380.00	28.00	2380.00
24	Supplying and fixing of Universal Hook with bolts & nuts . CDS-37 Bescom SR-16-17	Each			26	292.0	7592.00	26.00	7592.00
25	Supply and fixing of .....cross arm including all Hardware's complete as per the standard technical specification of BESCOM 2 Pin 45x45x5mm -510mm	Each		Unsettled Qty to.	28	306.0	7344/- 8568.00	28.00	7344 8568.00

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
26	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each			3	15000.0	45000.00	3.00	45000.00
27	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. a) Single bracket 1.5 Mtr. Length	Each			3	1292.0	3876.00	3.00	3876.00
							₹4,06,170/-		₹4,06,170
	TOTAL						8407394.00		8407394.00
Rupees Eighty Four Lakh Seven Thousand Three Hundred and Ninety Four Only									

Certificate: Certified that this work carried out satisfactorily.

30/05